



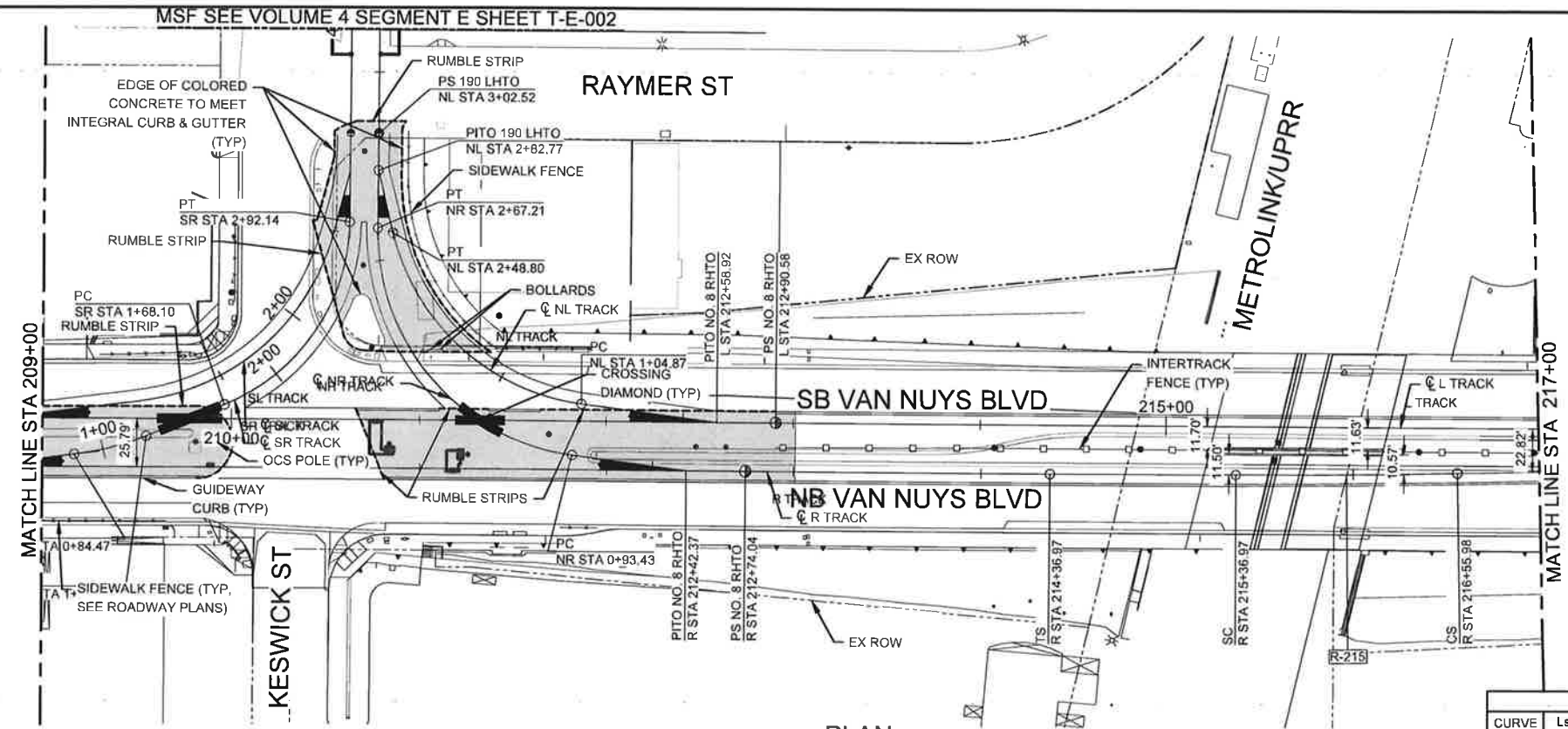
FILED

11/01/22

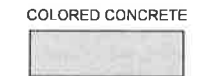
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A2211009

Exhibit B3: Raymer Street

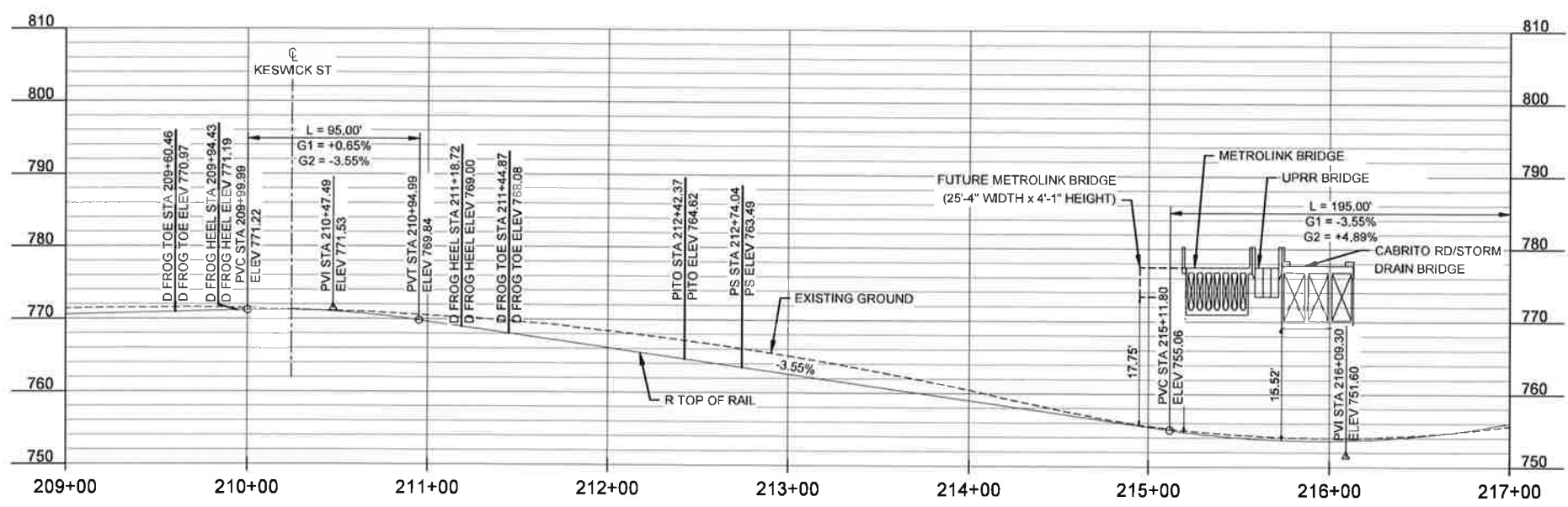


- NOTES:
1. SL, SR, NR, AND NL TRACKS SHALL BE FULLY RESTRAINED FROM HEEL OF FROG TO HEEL OF FROG.
 2. SEE T-B-018 FOR SL TRACK AND SR TRACK GEOMETRY. SEE T-B-019 FOR NL TRACK AND NR TRACK GEOMETRY.
 3. SEE SHEET T-B-001 FOR GENERAL PLAN AND PROFILE NOTES.

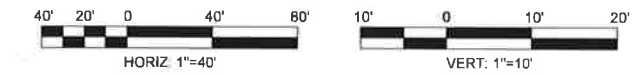


PLAN
SCALE: 1" = 40'

R TRACK CURVE DATA							
CURVE NO.	Ls IN (FT)	Ls OUT (FT)	R (FT)	Lc (FT)	E (IN)	Ea (IN)	Eu (IN)
R-215	100	100	7,500	119.01	0.63	0.50	0.13
							DESIGN SPEED V (MPH)
							35



PROFILE
HORZ: 1" = 40'
VERT: 1" = 10'





THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND IN PART BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG. NO.	EXPIRES	SEAL HOLDER	DESCRIPTION
2	5/23/22						30%/60% STATION LOCATION MODS
1	4/30/21						30%/60% DESIGN SUBMITTAL
0	8/7/20						15%/30% DESIGN SUBMITTAL

DESIGNED BY
D. SALAZAR
DRAWN BY
D. SALAZAR
CHECKED BY
D. LEE
IN CHARGE
M. FREEMAN
DATE
08/28/2022

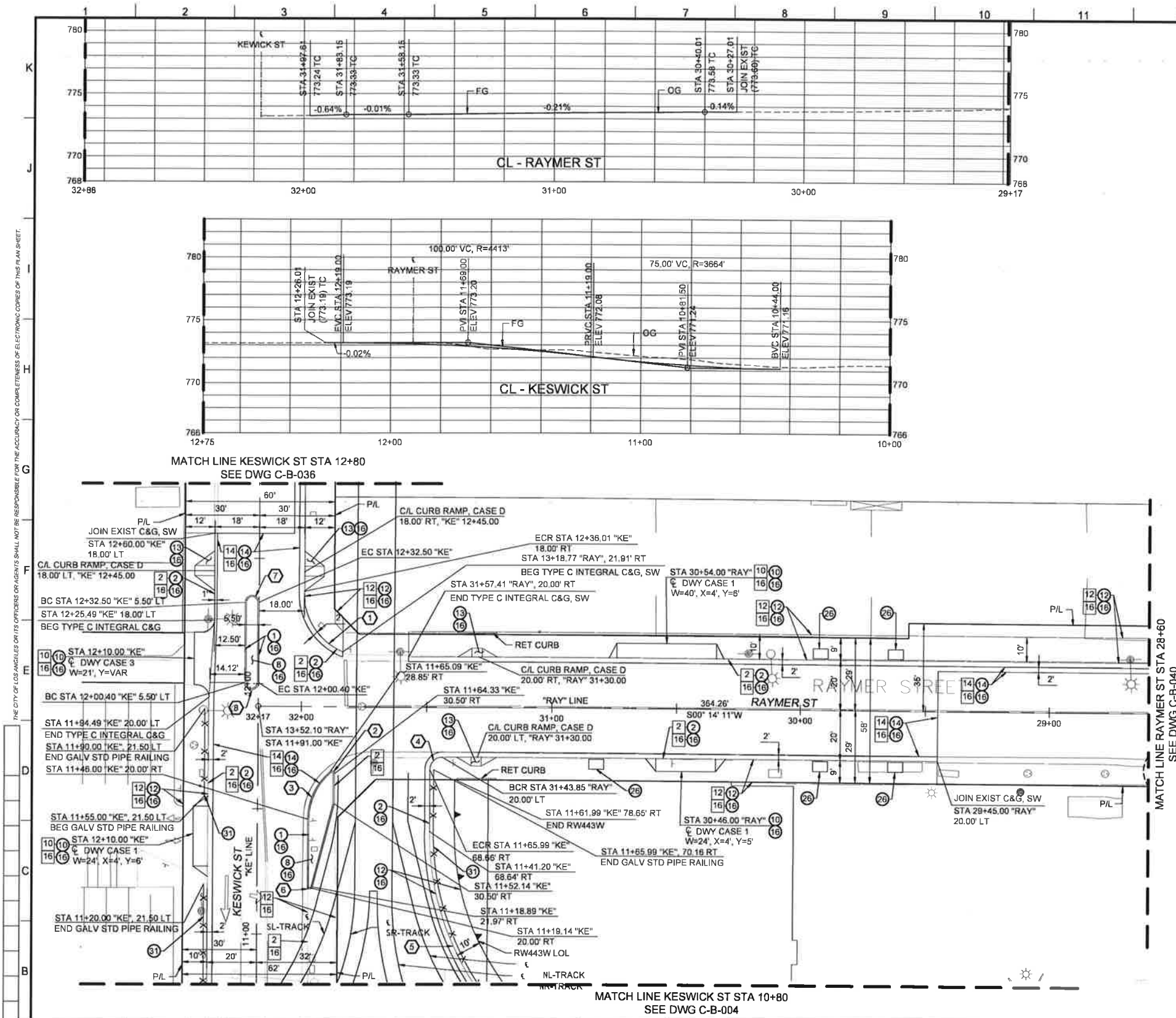
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**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**



EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR
TRACK ALIGNMENT
PLAN AND PROFILE
STA 209+00 TO STA 217+00

CONTRACT NO.	E0129
DRAWING NO.	T-B-003
SCALE	AS SHOWN
SHEET NO.	2

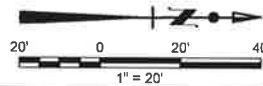


- CONSTRUCTION SYMBOLS:**
- CONSTRUCT
 - ◻ EXISTING
 - ◻ REMOVE
 - ◻ REMODEL EXISTING
 - ◻ REMOVE AND CONSTRUCT
 - WORK BY OTHERS

- CONSTRUCTION NOTES:**
- 1 CONCRETE CURB
 - 2 TYPE C INTEGRAL CURB & GUTTER
 - 8 CONCRETE PAVEMENT
 - 10 CONCRETE DRIVEWAY
 - 12 CONCRETE WALK
 - 13 CURB RAMP
 - 14 ASPHALT CONCRETE PAVEMENT
 - 16 CRUSHED MISCELLANEOUS BASE
 - 26 TREE WELL
 - 31 PIPE RAILING

- NOTES:**
1. SEE UTILITY PLANS (U) FOR EXISTING/PROPOSED UTILITIES.
 2. SEE STREET LIGHTING PLANS (SL) FOR EXACT LOCATIONS AND DETAILS.
 3. SEE TRAFFIC SIGNAL PLANS (TR) FOR TRAFFIC SIGNAL POLE AND EQUIPMENT LOCATIONS AND DETAILS.
 4. SEE TRACKWORK PLANS (T) FOR TRACK RELATED WORK INCLUDING GUIDEWAY CURB.
 5. SEE DRAINAGE PLANS (D) FOR STORM DRAIN RELATED WORK.
 6. SEE RIGHT-OF-WAY PLANS FOR RIGHT-OF-WAY TAKE AND TEMPORARY CONSTRUCTION EASEMENTS.
 7. SEE PLANTING PLANS (L) FOR LANDSCAPE AND TREE/TREEWELL LOCATIONS. INSTALL 4"x6" TYPE 1 TREE WELL COVER PER STANDARD PLAN S-450-3.
 8. SEE TREE PROTECTION/LANDSCAPE (L) PLANS FOR EXISTING TREES TO BE REMOVED OR PROTECTED IN PLACE (PROVIDED BY D/B TEAM).
 9. SEE NOTICE TO CONTRACTOR NOTES FOR REMOVAL AND REINSTALLATION/RELOCATION OF CITY TRANSIT FURNITURE.
 10. FOR CURB RAMP AND INTERSECTION DETAILS, SEE CD-B-003.

CURVE DATA TABLE				
No.	RADIUS	DELTA	LENGTH	TANGENT
1	25.00'	67°28'35"	29.45'	16.70'
2	1.00'	130°13'41"	2.27'	2.16'
3	25.00'	49°46'19"	21.72'	11.60'
4	5.00'	90°00'00"	7.85'	5.00'
5	110.00'	56°28'56"	108.44'	59.08'
6	1.00'	165°36'32"	2.89'	7.92'
7	2.75'	180°00'00"	8.64'	-
8	2.75'	180°00'00"	8.64'	-



310/07/22

207/20/22

104/30/21

008/07/20

REV

DATE

BY

APP

REG. NO.

EXPRES

SEAL HOLDER

DESCRIPTION

CPUC APPLICATION #3

30%/60% STATION LOCATION MODS

30%/60% DESIGN SUBMITTAL

15%/30% DESIGN SUBMITTAL

DESIGNED BY
P. YANG

DRAWN BY
M. JAMIL

CHECKED BY
H. NGUYEN

IN CHARGE
H. NGUYEN

DATE
07/20/22

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Metro

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

WKE

Gannett Fleming

EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR STREET IMPROVEMENTS KESWICK ST AND RAYMER ST PLAN AND PROFILE

CONTRACT NO.
E0129

DRAWING NO.
C-B-005

REV
2

SCALE
HORIZ: 1"=20'
VERT: 1"=4'

SHEET NO.

CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

WKE, INC.

DESIGN GROUP

ENGINEER
H. NGUYEN

DESIGNED BY
P. YANG

DRAWN BY
M. JAMIL

CHECKED BY
H. NGUYEN

APPROVED BY
H. NGUYEN

SHEET TITLE
STREET IMPROVEMENTS PLAN AND PROFILE

PROJECT
EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR

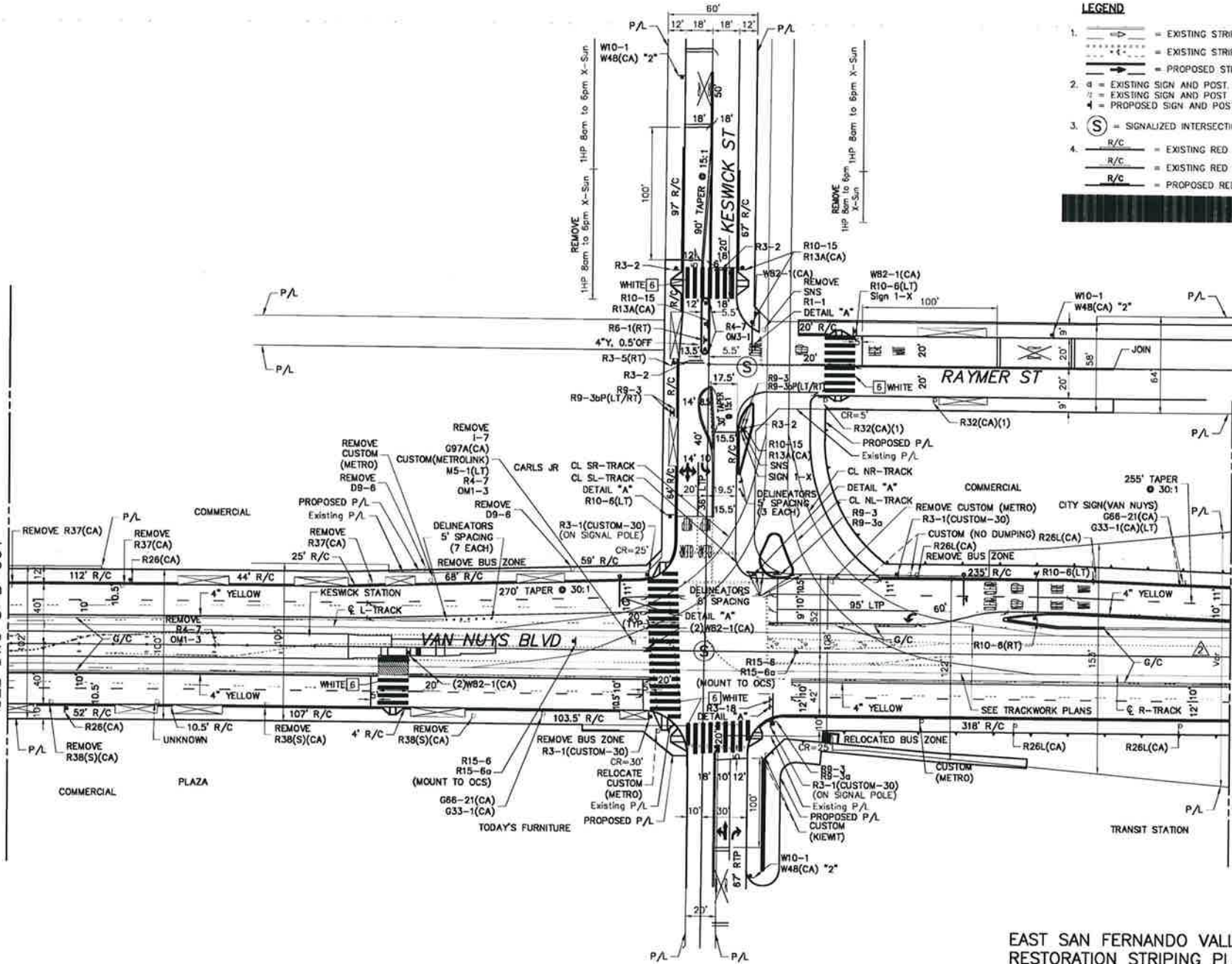
ADDRESS

DRAWING NO.

SHEET OF SHEETS

C:\PWORKING\GFPW01\EDDIE\TANG\FPLANDASSOCIATES.COM\089553\E0129-C-B-005.DWG 10/7/2022 2:47 PM

MATCHLINE
SEE DWG S-B-001



MATCHLINE
SEE DWG S-B-003

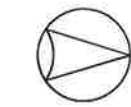
LEGEND

1. = EXISTING STRIPING & MARKINGS TO REMAIN.
 = EXISTING STRIPING & MARKINGS TO BE REMOVED.
 = PROPOSED STRIPING & MARKINGS.
2. = EXISTING SIGN AND POST.
 = EXISTING SIGN AND POST TO BE REMOVED OR RELOCATED.
 = PROPOSED SIGN AND POST.
3. = SIGNALIZED INTERSECTION.
4. = EXISTING RED CURB MARKINGS TO REMAIN.
 = EXISTING RED CURB MARKINGS TO BE REMOVED.
 = PROPOSED RED CURB MARKINGS.

DETAIL "A"	I-7	R15-6
D9-6	OM1-3	R1-1 (CUSTOM-30)
G33-1(CA)	R15-6a	R3-1
G66-21(CA)	R26L(CA)	R3-1B
G97A(CA)	R28(CA)	R4-7
R32(CA)	R9-3	
R37(CA)	R9-3a	
R38(S)(CA)	R10-6(LT)	
W10-1	SIGN 1-X	
R10-6(RT)	W18-6P	
R10-15	W48(CA) *2	
R13A(CA)	W82-1(CA)	

EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR RESTORATION STRIPING PLAN

REVIEWED	20	RECOMMENDED	20	ACCEPTED	20
Transportation Engineer		Senior Transportation Engineer		Principal Transportation Engineer	
INSTALLATION DATES					
MARKOUT BEGAN:					
MARKOUT COMPLETED:					
STRIPING COMPLETED:					
District: EAST VALLEY					
Thomas Guide: 532-A3					
Reference:					
FIELD INVESTIGATION					
PROJECT NO. PCM14007					
DRAWING NO. S-B-002					
CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION SELETA J. REYNOLDS, GENERAL MANAGER					
VAN NUYS BLVD KESWICK ST					
IF THIS PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE ACCEPTANCE DATE, IT MUST BE RESUBMITTED TO LADOT METRO PROGRAMS DIVISION FOR REVIEW.					



Scale: 1" = 40'

REV	DATE	BY	APP	REQ. NO.	EXPIRES	SEAL HOLDER	DESCRIPTION
	09/28/22						
1	04/30/21						CPUC APPLICATION #3
0	08/07/20						30%/60% DESIGN SUBMITTAL
							15%/30% DESIGN SUBMITTAL

DESIGNED BY
P. YANG
DRAWN BY
A. VILLEGAS
CHECKED BY
H. NGUYEN
IN CHARGE
H. NGUYEN
DATE
04/30/21

FOR
REVIEW
ONLY NOT FOR
CONSTRUCTION



LOS ANGELES COUNTY
METROPOLITAN TRANSPORTATION AUTHORITY

WKE



EAST SAN FERNANDO VALLEY
TRANSIT CORRIDOR

SIGNING AND STRIPING PLAN
SHEET 2 OF 16

CONTRACT NO.	E0129
DRAWING NO.	S-B-002
SCALE	1" = 40'
SHEET NO.	

IRPM OPERATIONS:

- IRPM LIGHTS FACING KESWICK STREET WESTBOUND AND EASTBOUND
 - LIGHTS SHALL BE SOLID RED WHEN LRT PHASE IS ACTIVE.
 - LIGHTS SHALL TURN OFF WHEN LRT PHASE IS INACTIVE.
- IRPM LIGHTS FACING VAN NUYS SOUTHBOUND LEFT-TURN LANE
 - LIGHTS SHALL BE SOLID RED:
 - WHEN LEFT TURN PHASE (#5) IS RED OR WHEN LRT PHASE IS ACTIVE.
 - LIGHTS SHALL TURN OFF WHEN LEFT TURN PHASE (#5) IS GREEN OR YELLOW AND LRT PHASE IS INACTIVE.
- IRPM LIGHTS FACING VAN NUYS NORTHBOUND LANE
 - LIGHTS SHALL BE SOLID RED:
 - WHEN LEFT TURN PHASE (#6) IS RED OR WHEN LRT PHASE IS ACTIVE.
 - LIGHTS SHALL TURN OFF WHEN LEFT TURN PHASE (#6) IS GREEN OR YELLOW AND LRT PHASE IS INACTIVE.
- IRPM LIGHTS FACING METROLINK STATION PED XING (NORTH) (INCLUDING BI-DIRECTIONAL LIGHTS)
 - LIGHTS SHALL BE SOLID RED WHEN LRT PHASE IS ACTIVE.
 - LIGHTS SHALL TURN OFF WHEN LRT PHASE IS INACTIVE.
- IRPM LIGHTS FACING RAYMER STREET NORTHBOUND AND SOUTHBOUND
 - LIGHTS SHALL BE SOLID RED WHEN LRT PHASE IS ACTIVE.
 - LIGHTS SHALL TURN OFF WHEN LRT PHASE IS INACTIVE.

LEGEND:

- UNI-DIRECTIONAL IRPM LIGHT
- BI-DIRECTIONAL IRPM LIGHT

LRT SEQUENCE: THROUGH-ONLY LRT OPERATIONS

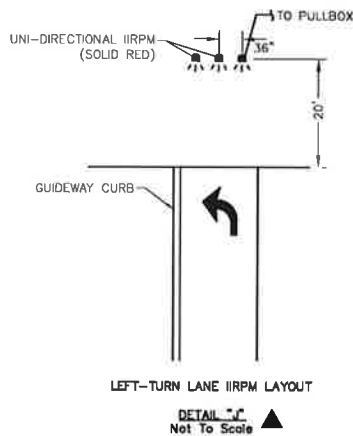
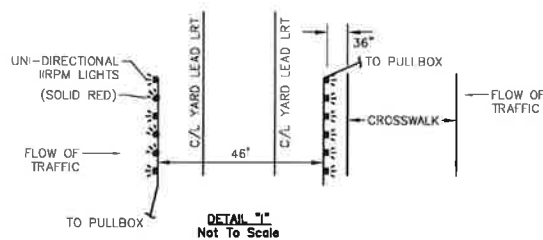
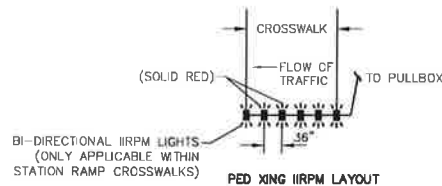
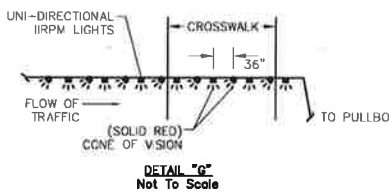
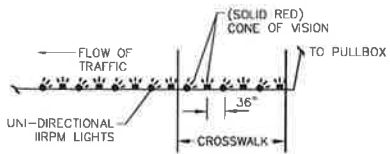
- LRT ENTERS TRACK CIRCUIT AND INITIATES CALL VIA THE TRAIN CONTROL BUNGALOW TO THE TRAFFIC SIGNAL CONTROLLER TO PROCEED WITH LRT THROUGH MOVEMENTS (NORTHBOUND/SOUTHBOUND) AT VAN NUYS BOULEVARD/KESWICK STREET.
- PEDESTRIAN SIGNALS FOR PHASE BP DISPLAYING "WALK" INDICATION COMPLETE THE TIMING OF "WALK" AND THEN ENTER INTO PEDESTRIAN CLEARANCE. PEDESTRIAN SIGNALS NOT SHOWING "WALK" INDICATION WILL NOT START A "WALK" INDICATION. CONCURRENT VEHICULAR SIGNALS TIME NORMALLY UNTIL YELLOW CLEARANCE, EXCEPT IF PHASES OLB, OLC, OLE, AND OLF ARE GREEN, THEN THEY REMAIN GREEN.
- UPON COMPLETION OF PEDESTRIAN CLEARANCE FOR PHASE BP, PEDESTRIAN SIGNALS DISPLAY SOLID "DON'T WALK". UPON COMPLETION OF YELLOW CLEARANCE FOR VEHICULAR INDICATIONS, VEHICULAR SIGNALS DISPLAY SOLID RED.
- PHASES 2, OLB, OLC, AND OLE WILL REMAIN GREEN UNTIL THE LRT PROCEEDS THROUGH VAN NUYS BLVD. & KESWICK ST. INTERSECTION VIA LRT PHASES LRA AND/OR LRB. SOLID RED FOR ALL OTHER VEHICULAR SIGNALS.
- LRT LEAVES CIRCUIT VIA ACTIVATION LOOPS.
- SIGNAL RETURNS TO NORMAL OPERATION.

RAILROAD PREEMPTION FOR YARD LEAD OPERATIONS

- TRAIN WILL BE ENTERING THE YARD; PREEMPTION IS ACTIVATED.
- IF A PHASE IS DISPLAYING "WALK" IT IMMEDIATELY ADVANCES TO FLASH DON'T WALK. PEDESTRIAN CLEARANCE TIME WILL COMPLETE THE FULL INTERVAL.
- AFTER PEDESTRIAN CLEARANCE TIME IS COMPLETED, CURRENT VEHICULAR PHASE WILL ADVANCE TO YELLOW INTERVAL AND ALL-RED INTERVALS.
- PREEMPTION WILL THEN DISPLAY GREEN FOR THE TRACK CLEARANCE PHASES ONLY FOR PHASE 3. ALL OTHER INDICATIONS WILL DISPLAY RED FOR THE VEHICULAR PHASES AND OVERLAPS. THE CLEARANCE PHASE WILL TIME FOR XX SECONDS.
- CLEARANCE PHASES WILL ADVANCE TO YELLOW AND ALL-RED INDICATIONS AFTER THE CLEARANCE TIME COMPLETES.
- PHASE 1 WILL DISPLAY GREEN INDICATIONS AFTER THE CLEARANCE INTERVAL AND HOLD IN THIS PHASE WHILE PREEMPTION IS ACTIVE.
- AFTER PREEMPTION CONCLUDES, PHASE 1 WILL TERMINATE AND DISPLAY YELLOW AND ALL-RED.
- TIMING CONTINUES NORMAL OPERATION STARTING WITH PHASE 2 AND PHASE 6.

PHOTO ENFORCEMENT NOTES:

- METRO'S PHOTO ENFORCEMENT VENDOR TO FURNISH AND INSTALL PHOTO ENFORCEMENT CAMERA WITH FLASH POLE. CONNECT CAMERA SERVICE, BRT RED, YELLOW, AND GREEN SENSOR WIRES, AUXILIARY FLASH POWER TRIGGER CONDUCTORS, AND GROUND AT CAMERA POLE TERMINAL BLOCK.
- PHOTO ENFORCEMENT CONTRACTOR TO INSTALL 10' GROUND ROD. METRO'S PHOTO ENFORCEMENT VENDOR TO CONNECT 6 AWG SOLID GROUND WIRE TO PHOTO ENFORCEMENT CAMERA POLE WITH FLASH ARM MOUNT TERMINAL BLOCK GROUND LUG.
- METRO'S PHOTO ENFORCEMENT VENDOR TO INSTALL AUXILIARY FLASH UNIT, FURNISHED BY XEROX, ON STREET LIGHTING POLE. MAKE CONNECTIONS AT FLASH UNIT TERMINAL BLOCK FOR FLASH UNIT POWER AND TRIGGER CONNECTIONS.
- METRO'S PHOTO ENFORCEMENT VENDOR TO INSTALL XEROX-FURNISHED PHOTO ENFORCEMENT WARNING SIGN SR56 (CA) AND SIGN POLE, PRIOR TO ACTIVATION OF SYSTEM.
- METRO'S PHOTO ENFORCEMENT VENDOR TO INSTALL REAR VIDEO CAMERA ON 10' POLE.
- METRO'S PHOTO ENFORCEMENT VENDOR TO MOUNT RADAR UNIT ON NEW TRAFFIC SIGNAL POLE APPROX. 19' FROM GRADE (MINIMUM HEIGHT IS 13').
- PHOTO ENFORCEMENT CONTRACTOR TO INSTALL WATERPROOF 120V AC SERVICE CONNECTOR FOR EACH PHOTO ENFORCEMENT CAMERA AT SERVICE PULL BOX. PROVIDE IN-LINE WATERPROOF FUSE HOLDER WITH 15A FUSER IN EACH CAMERA SERVICE CIRCUIT.
- PHOTO ENFORCEMENT CONTRACTOR TO INSTALL 10' GROUND ROD. METRO'S PHOTO ENFORCEMENT VENDOR TO CONNECT 6 AWG SOLID GROUND WIRE TO AUXILIARY FLASH UNIT TERMINAL GROUND LUG.
- METRO'S PHOTO ENFORCEMENT VENDOR SHALL FURNISH AND INSTALL PHOTO ENFORCEMENT TRAFFIC UNIT AND COMMUNICATION CHANNEL CARD IN JS2 CABINET.
- METRO'S PHOTO ENFORCEMENT VENDOR TO FURNISH AND INSTALL 4 CURRENT SENSING SWITCHES (OR MAGNETICS CR9350-ACA), MOUNTED ON XEROX-FURNISHED PANEL, ON CABINET FRAME A DIRECTED BY LADOT. INSTALL IN-LINE WATERPROOF FUSE HOLDER WITH 5A FUSE IN SWITCH OUTPUT TO CAMERA UNIT.



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA) UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND IN PART BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REQ NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	10/12/22						CPUC APPLICATION #3
	04/21/21						30%/60% DESIGN SUBMITTAL

DESIGNED BY	M. GUTIERREZ
DRAWN BY	M. GUTIERREZ
CHECKED BY	N. KIM
IN CHARGE	B. LI
DATE	04/30/21

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LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

PLANS PREPARED BY: iteris

1700 Carnegie Avenue, Suite 100
Santa Ana, CA 92705-551
Phone: (949) 270-6480
Fax: (949) 270-9481

PROJECT PRIME: Gannett Fleming

EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR

TRAFFIC SIGNAL RESTORATION PLAN

KESWICK ST. & VAN NUYS BLVD./RAYMER ST.

SHEET 3 OF 3

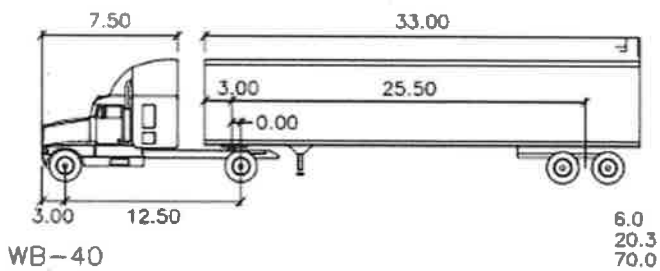
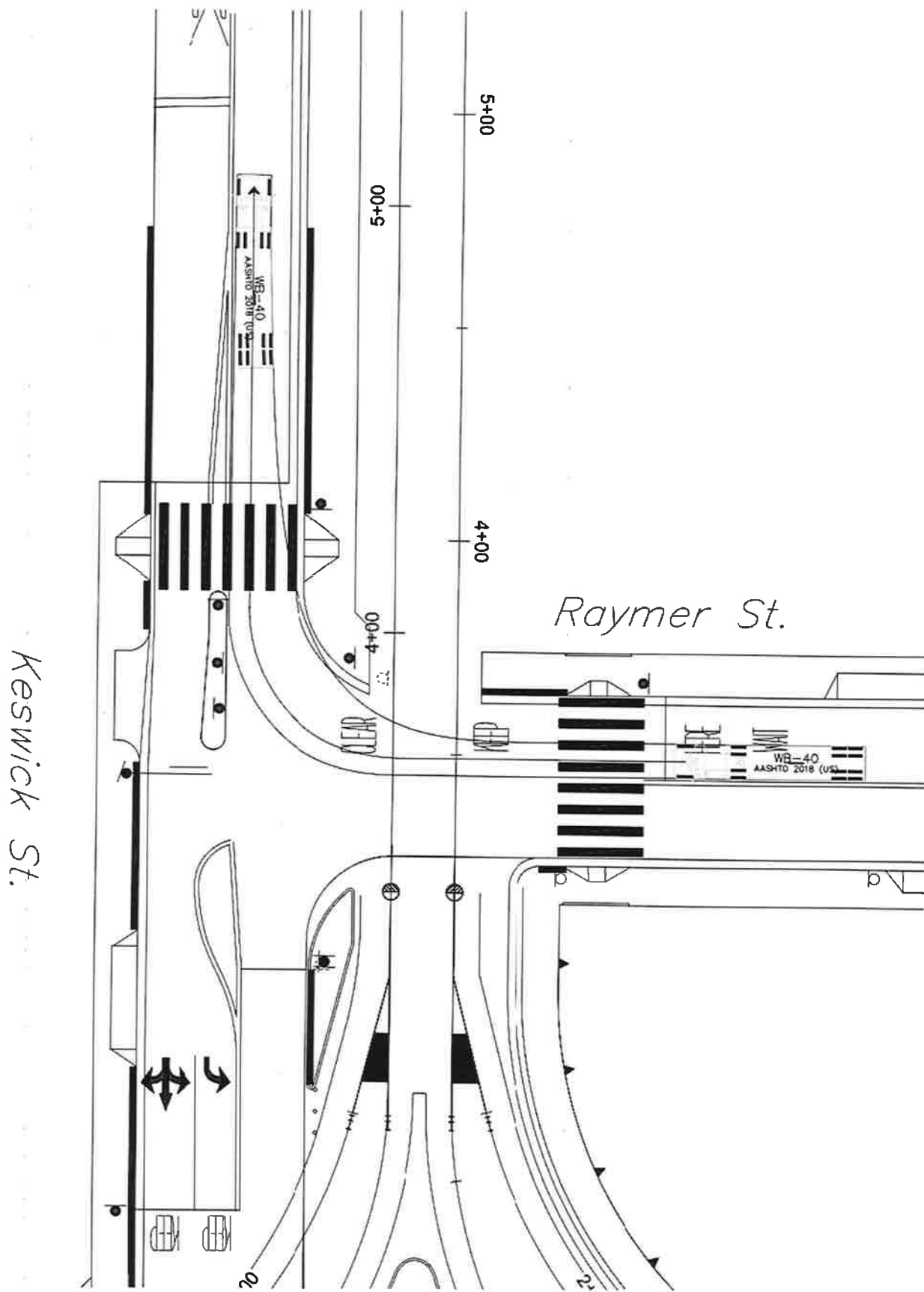
CONTRACT NO	E-0129
DRAWING NO	TR-B-006A
SCALE	1" = 20'
SHEET NO	

NO.	REVISION	DESCRIPTION	DATE	BY	DATE	BY	DATE

EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR PROJECT

TRAFFIC SIGNAL RESTORATION PLAN

REVIEWED	20	RECOMMENDED	20	ACCEPTED	20
Transportation Engineer		Senior Transportation Engineer		Principal Transportation Engineer	
AS BUILT		CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION SELETA J. REYNOLDS, General Manager			
Date of Installation:		TITLE			
LADOT Inspector:		KESWICK ST., VAN NUYS BLVD. & RAYMER ST.			
Condition As Of:		SHEET 3 OF 3			
LADOT Engineer:		FILE NAME			
District:	East Valley	31250-2020.DWG			
Thence Guide:	S32 A3	INTERSECTION NO.			
References:		31250			
As-Built: 02-24-04		PROJECT NO.			
PROJ: 74219 PLAN: XXXX		PCM14007			
Field Investigation		NOTICE: IF PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE ACCEPTANCE DATE, IT MUST BE RESUBMITTED TO LADOT METRO PROGRAMS DIVISION FOR REVIEW.			

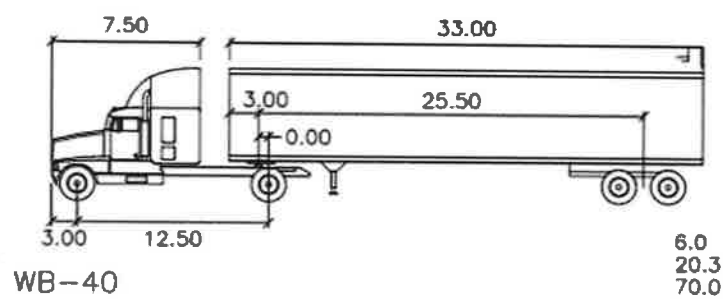
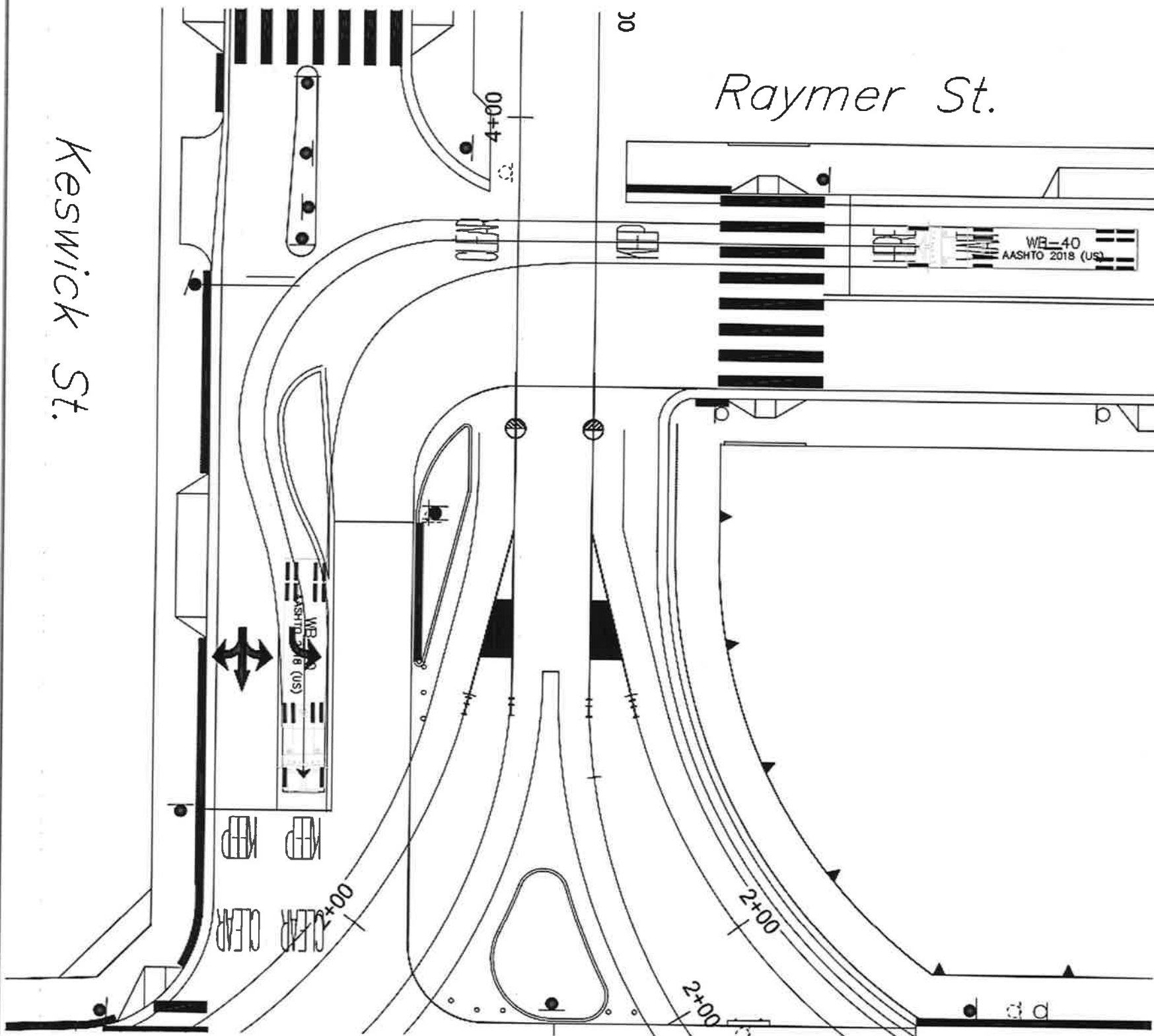


	feet	
Tractor Width	: 8.00	Lock to Lock Time
Trailer Width	: 8.00	Steering Angle
Tractor Track	: 8.00	Articulating Angle
Trailer Track	: 8.00	

EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR Truck Turn Template Exhibit – Raymer St

Keswick St.

Raymer St.



	feet		
Tractor Width	: 8.00	Lock to Lock Time	:
Trailer Width	: 8.00	Steering Angle	:
Tractor Track	: 8.00	Articulating Angle	:
Trailer Track	: 8.00		

EAST SAN FERNANDO VALLEY TRANSIT CORRIDOR
Truck Turn Template Exhibit – Raymer Street